## Some fixed point theorems for rational type contractions

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Fixed point theory begins with the Banach contraction principle which was firstly given by Banach in "S.Banach, Sur les operations dans les ensembles abstraits et leurs applications aux equations integrales, Fund. Math., 3 (1992), 133–181." There are important applications of fixed point theory in mathematics, computer science, game theory, economics. A lot of researcher generalized Banach contraction principle in different directions. In " J. J. Nieto, R. Rodriguez-Lopez, Contractive mappings theorem in partially ordered sets and applications to ordinary differential equations, Order, 22 (2005), 223-239", Banach contraction principle extended to partially ordered metric spaces. Partial metric which is a generalized notion of metric introduced by "S.G.Matthews, Partial metric topology, in: Proc. 8th Summer Conference on General Topology and Application, in: Ann. New York Acad. Sci., vol. 728, (1994), 183–197." Matthews proved that Banach contraction principle is valid in partial metric spaces and the obtained results applied to program verification. In "D.S.Jaggi, Some unique fixed point theorems, Indian J.Pure Appl. Math. 8 (1977), 223-230", fixed point results for rational type contractions have been obtained. These obtained results extended to partially ordered metric spaces in " J.Harjani, B. Lopez, K. Sadaragani, A fixed point theorem for mappings satisfying a contractive condition of rational type on a partially ordered metric space, Abstr. Appl. Anal., 2010 (2010), 19071." In this work, we extend many fixed point theorems for continuous contractions of rational type to the framework of those that are orbitally continuous. Moreover, we get extensions of metric fixed point results to the framework of partial metrics.